SAMPLE Document

How Do Your Parts Work?

Designer(s):

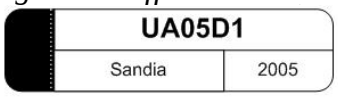
Organization: Sandia National Laboratories

Date last updated: September 10, 2005

Part(s) Description

UA05D1- TRA (Torsional Ratchet Actuator).

Graphic *(Photo and/or CAD image with sufficient detail/views)*



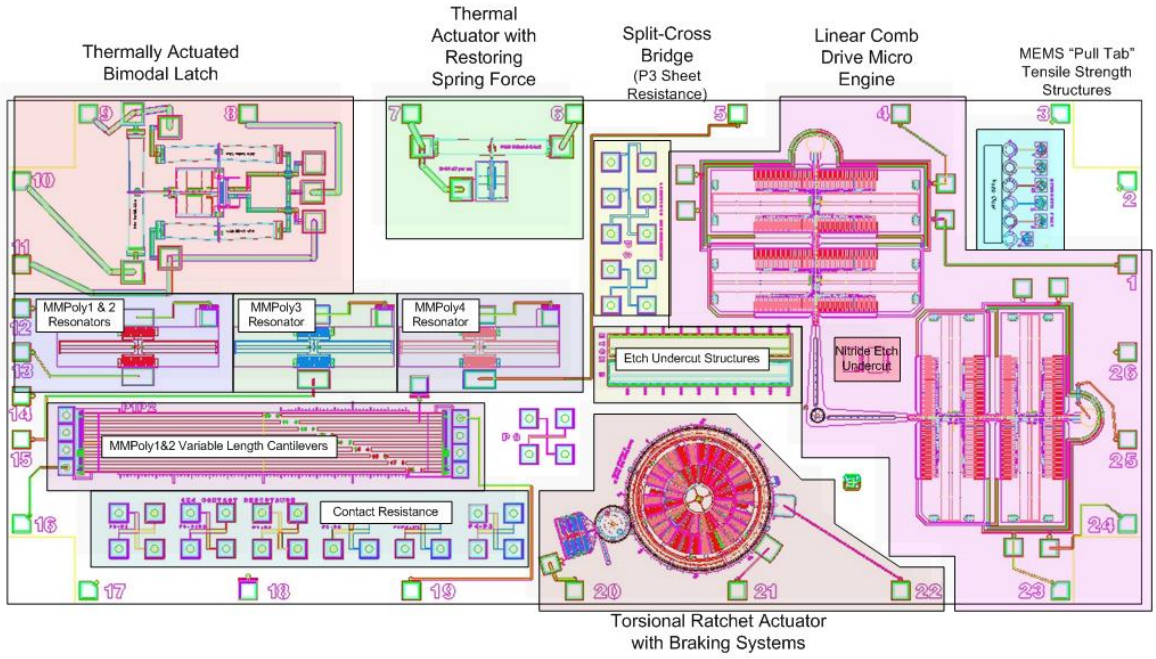


Figure 1 Schematic of entire module, highlighting each device type.

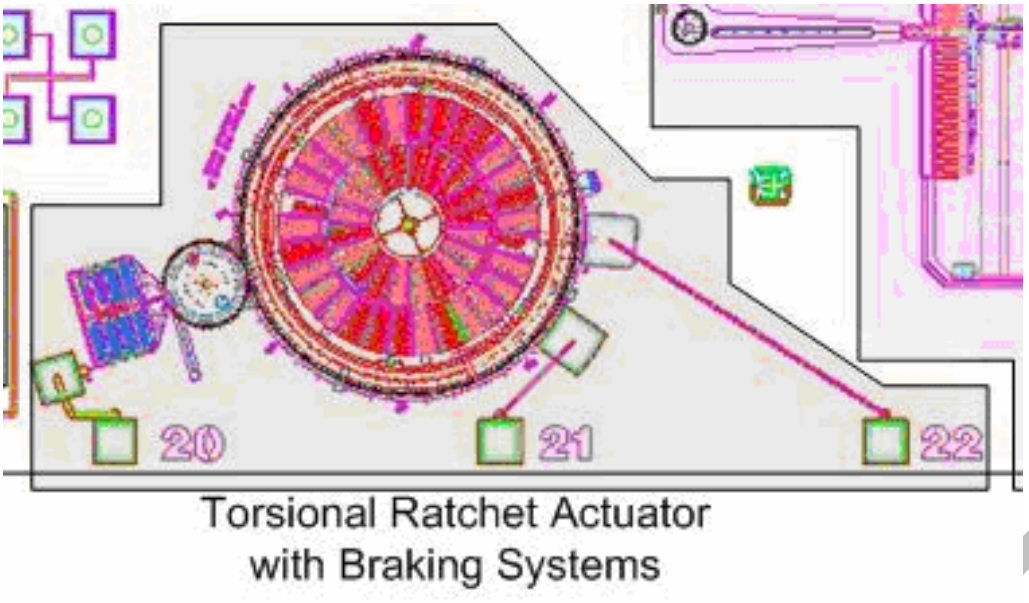


Figure 2 Blow up of the TRA with braking system.

Signal Input Table for each Device

Table 1 Signal input for the Torsional Ratchet Actuator with braking system shown in Figure 2.

Bond Pad Number	Input Signal Label	Input Signal Frequency	Input Voltage Peak to Peak	Waveform (Square, Sinusoidal, Saw Tooth….)	Other
Torsional Ratchet Actuator					
21	Ground	0	0	NA	
22	Input	<1Hz-1kHz	70-90V	Clipped Square	
TRA Brake					
21	Ground	0	0	NA	
20	Input	DC or square	0-90V	Clipped Square or DC	Variable to adjust brake pressure

Notes:

If you run the TRA much above 90V, the Comb Stops may break off and short out the combs.